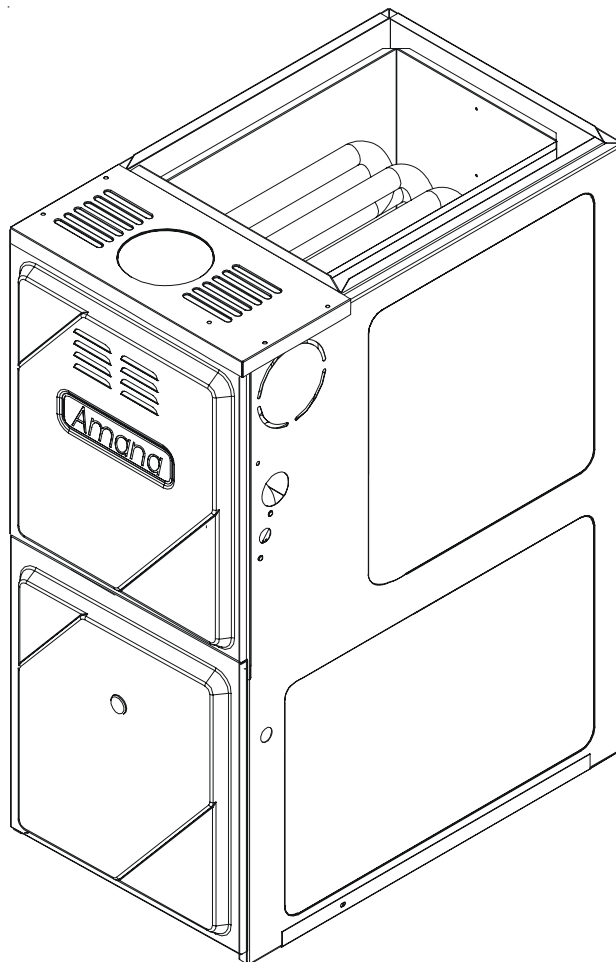


# TECHNICAL INFORMATION MANUAL

## AMV8 39" 80% Gas Furnace Upflow/Horizontal

Models listed  
on page 3.

- Refer to RS6610004 Service Manual for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.



**Heating & Air Conditioning**  
**Amana**  
LASTS AND LASTS AND LASTS.™

This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

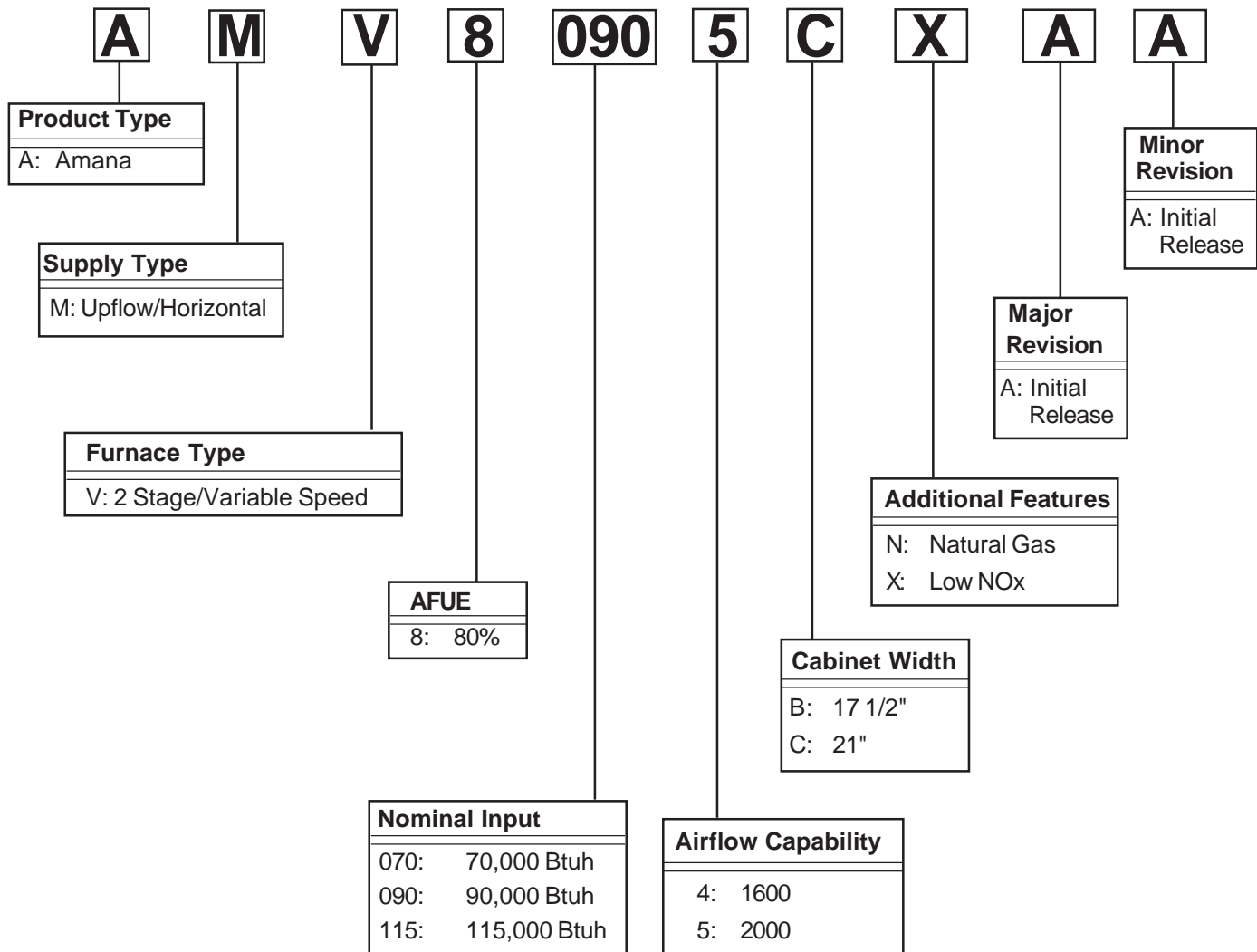
RT6622007  
November 2006

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# PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



## WARNING

### HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



## WARNING

Installation and repair of this unit should be performed ONLY by individuals meeting the requirements of an "entry level technician" as specified by the Air Conditioning and Refrigeration Institute (ARI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.



## WARNING

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

# PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

AMV80704BX\*\*

AMV80905CX\*\*

AMV81155CX\*\*



The United States Environmental Protection Agency (“EPA”) has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.



To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.



Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.

# PRODUCT DESIGN

## General Operation

AMV8 furnaces are equipped with an electronic ignition device used to light the burners and an induced draft blower to exhaust combustion products.

An interlock switch prevents furnace operation if the blower door is not in place. Keep the blower access door in place except for inspection and maintenance. (See *illustration on page 6.*)

This furnace is also equipped with a self-diagnosing electronic control module. In the event a furnace component is not operating properly, the control module LED will flash on and off in a factory-programmed sequence, depending on the problem encountered. This light can be viewed through the observation window in the blower access door. Refer to the *Troubleshooting Chart* for further explanation of the LED codes and *Abnormal Operation - Integrated Ignition Control* section in the Service Instructions for an explanation of the possible problem.

The rated heating capacity of the furnace should be greater than or equal to the total heat loss of the area to be heated. The total heat loss should be calculated by an approved method or in accordance with "ASHRAE Guide" or "Manual J-Load Calculations" published by the Air Conditioning Contractors of America.

\*Obtain from: American National Standards Institute 1430 Broadway New York, NY 10018

## Location Considerations

- The furnace should be as centralized as is practical with respect to the air distribution system.
- Do not install the furnace directly on carpeting, tile, or combustible material other than wood flooring.
- When suspending the furnace from rafters or joists, use 3/8" threaded rod and 2" x 2" x 3/8" angle as shown in the Installation and Service Instructions. The length of the rod will depend on the application and clearance necessary.
- When installed in a residential garage, the furnace must be positioned so the burners and ignition source are located not less than 18 inches (457 mm) above the floor and protected from physical damage by vehicles.

## Notes:

1. Category I Venting is venting at a non-positive pressure. A furnace vented as Category I is considered a fan-assisted appliance and the vent system does not have to be "gas tight."

**NOTE:** Gas furnaces with induced draft blowers draw products of combustion through a heat exchanger allowing, in some instances, common venting with natural draft appliances (i.e. water heaters).

All installations must be vented in accordance with National Fuel Gas Code NFPA 54/ANSI Z223.1 - latest edition. In Canada, the furnaces must be vented in accordance with the National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B149.2 - latest editions and amendments.

**NOTE:** The vertical height of the Category I venting system must be at least as great as the horizontal length of the venting system.

### WARNING

TO PREVENT POSSIBLE PERSONAL INJURY OR DEATH DUE TO ASPHYXIATION, COMMON VENTING WITH OTHER MANUFACTURER'S INDUCED DRAFT APPLIANCES IS NOT ALLOWED.

2. Line voltage wiring can enter through the right or left side of the furnace. Low voltage wiring can enter through the right or left side of furnace.
3. Conversion kits for high altitude natural or propane gas operation are available. See High Altitude Derate chart for details.
4. Installer must supply the following gas line fittings, depending on which entrance is used:

**Left** -- Two 90° Elbows, one close nipple, straight pipe.

**Right** -- Straight pipe to reach gas valve.

### WARNING

TO PREVENT POSSIBLE PERSONAL INJURY OR DEATH DUE TO ASPHYXIATION, THIS FURNACE MUST BE CATEGORY I VENTED. DO NOT VENT USING CATEGORY III VENTING.

# PRODUCT DESIGN

## Accessibility Clearances (Minimum)

Unobstructed front clearance of 24" **for servicing** is recommended.

Top clearance for horizontal configuration - 1"

**MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS - INCHES**

Sides	Rear	Front*	Vent		Top
			SW	B	
1	0	3	6	1	1

Approved for line contact in the horizontal position.

\* 24" clearance for serviceability recommended.

\*\* Single Wall Vent (SW) to be used only as a connector.

Refer to the venting tables outlined in the Installation Manual for

24" at front is required for servicing or cleaning.

**Note:** In all cases accessibility clearance shall take precedence over clearances from the enclosure where accessibility clearances are greater. All dimensions are given in inches.

## High Altitude Derate

When this furnace is installed at high altitude, the appropriate High Altitude orifice kit must be installed. This is required due to the natural reduction in the density of both the gas fuel and combustion air as altitude increases. The kit will provide the proper design certified input rate within the specified altitude range.

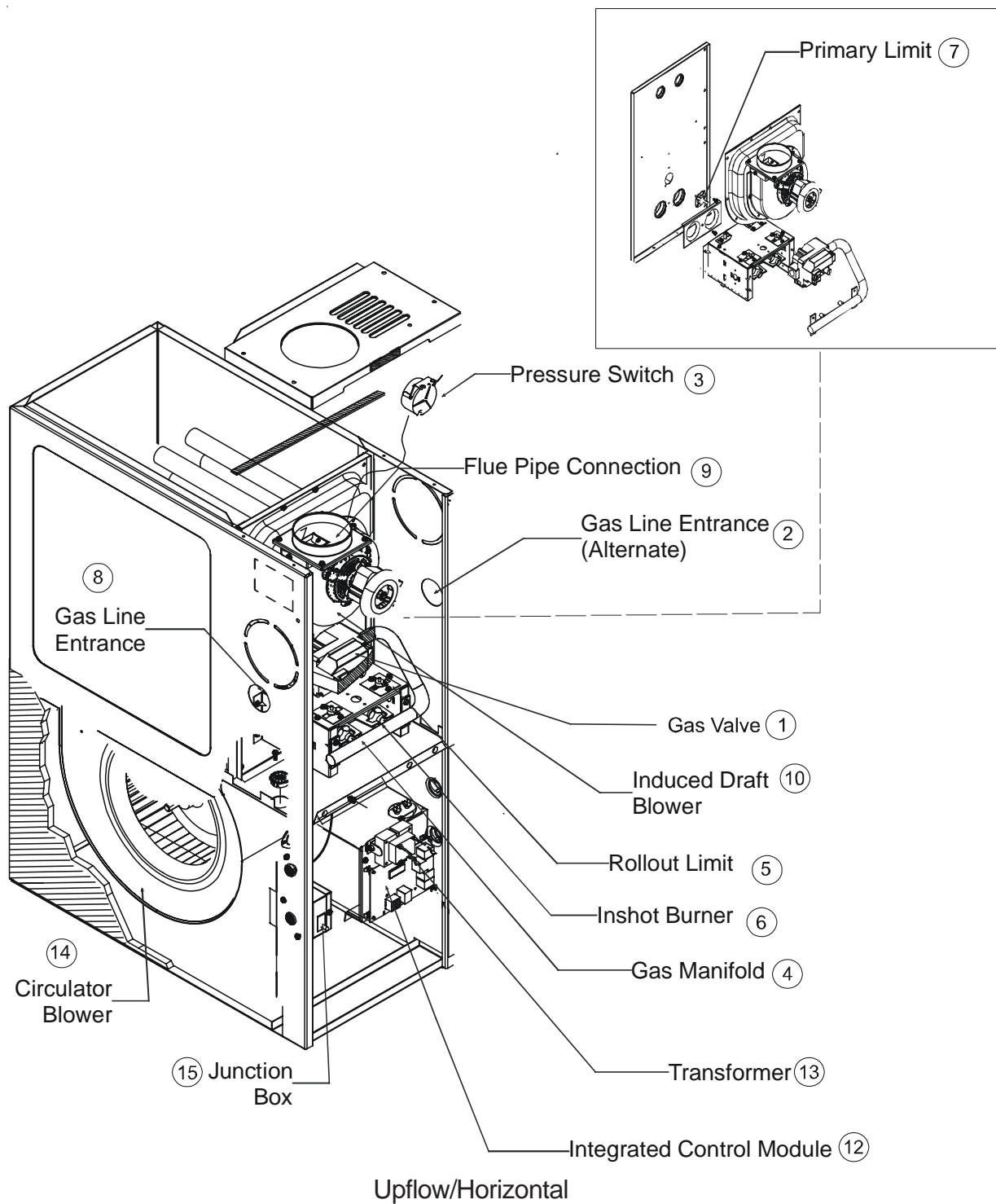
INPUT PER BURNER - 22,500 BTUH NATURAL GAS / 20,000 BTUH L.P.								
	ELEVATION ABOVE SEA-LEVEL (FEET)							
	2000	3000	4000	4500	5000	6000	7000	8000
US BURNER ORIFICE	44/55	44/55	45/56		45/56	46/57	47/58	47/58
CANADA BURNER ORIFICE	44/55			47/57				

### HA-02 HIGH ALTITUDE CONVERSION KIT REQUIRED

Tabled data is based upon the furnace input being reduced for altitudes above sea level. U.S. 4% per 1,000 feet.  
Canada 10% derate for 2,000-4,000 feet.

High altitude kits are purchased according to the installation altitude and usage of either natural or propane gas. Refer to the chart above for a tabular listing of appropriate altitude ranges and corresponding manufacturer's high altitude Natural Gas and Propane Gas kits. For a tabular listing of appropriate altitude ranges and corresponding manufacturer's High Altitude Pressure Switch kits, refer to either the *Pressure Switch Trip Points & Usage Chart* in this manual or the *Accessory Charts* in Service Instructions.

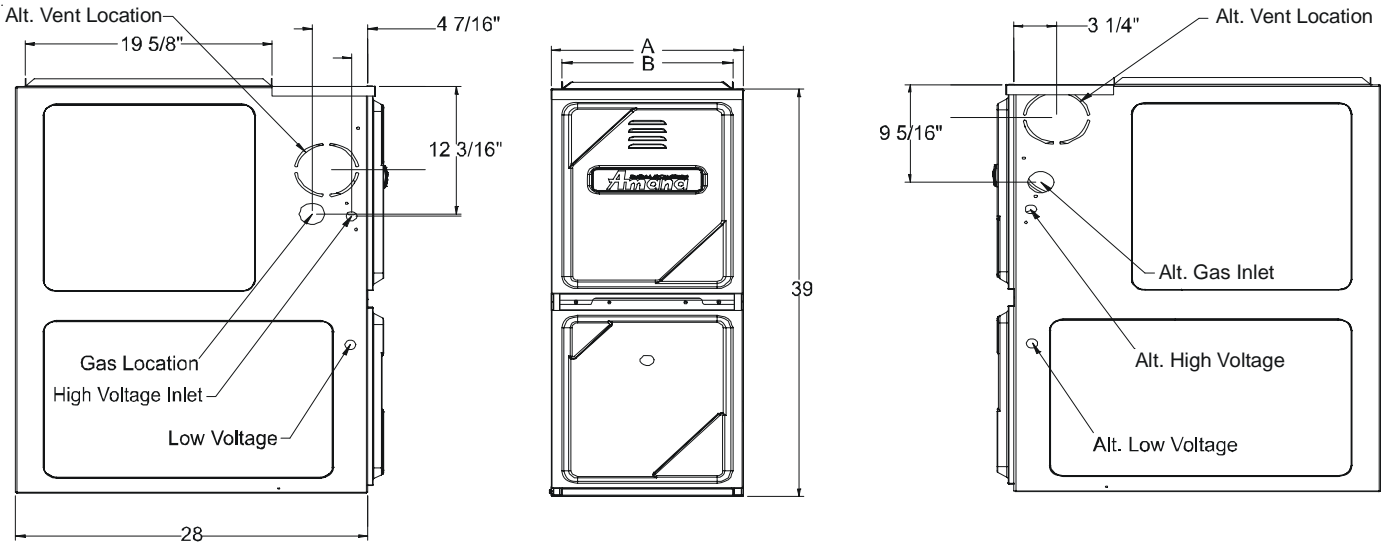
# COMPONENT IDENTIFICATION



- |                                    |  |
|------------------------------------|--|
| 1 Gas Valve                        | 10 Induced Draft Blower  |
| 2 Gas Line Entrance (Alternate)    | 11 Blower Door Interlock Switch                                |
| 3 Pressure Switch(es)              | 12 Integrated Control Module<br>(with fuse and diagnostic LED) |
| 4 Gas Manifold                     | 13 Transformer (40 VA)   |
| 5 Rollout Limit                    | 14 Circulator Blower   |
| 7 Primary Limit                    | 15 Junction Box  |
| 8 Gas Line Entrance                |  |
| 9 Flue Pipe Connection (Alternate) |  |

# PRODUCT DIMENSIONS

## AMV8\*\*\*\*\*XA



CABINET SIZE	A	B
AMV80704BX**	17½	16
AMV80905CX**	21	21
AMV81155CX**	21	21

All dimensions are in inches

# PRODUCT DESIGN

PRESSURE SWITCH TRIP POINTS AND USAGE CHART			
MODEL	0 to 8,000 ft.		
	Negative Pressure ID Blower With Flue not Firing typical Sea Level Data <sup>(1)</sup>		ID BLOWER PRESSURE SWITCH PART #
	LOW FIRE	HIGH FIRE	
AMV80704BX**	-0.30	-0.45	B1370208
AMV80905CX**	-0.30	-0.50	B1370209
AMV81155CX**	-0.30	-0.55	B1370210

**Note:** All negative pressure readings are in inches of water column (" w.c.).

(1) Data given is least negative pressure required for pressure switch to close.

T.O.D. PRIMARY LIMIT		
Part Number	B1370198	B1370207
Open Setting (°F)	150	130
AMV80704BX**	1	
AMV80905CX**	1	
AMV81155CX*		1

ROLLOUT LIMIT SWITCH	
Part Number	B1370145
Open Setting (°F)	300
AMV80704BX**	1
AMV80905CX**	1
AMV81155CX**	1

AUXILIARY LIMIT SWITCHES	
Part Number	20269903
Open Setting (°F)	150
AMV80704BX**	2
AMV80905CX**	2
AMV81155CX**	2



# PRODUCT DESIGN

## Coil Matches:

A large array of Amana® brand coils are available for use with the new AMV8 furnaces, in either upflow or horizontal applications. These coils are available in both cased and uncased models, with or without a TXV expansion device. These 80% furnaces match up with the existing Amana® brand coils as shown in the chart below.

## Coil Matches (for Amana® brand units using R22 and R-410A):

CABINET WIDTH	FURNACE MODELS	AIRFLOW (tons)	CAUF UNCASED "A" COILS	CAPF CASED "A" COILS	CHPF HORIZ. CASED "A" COIL
17 1/2	AMV80704BX**	1 1/2 - 3	CAUF018B2* CAUF025B2* CAUF030B2* CAUF036B2* CAUF037B2* CAUF042B2* CAUF048B2* CAUF1824B6* CAUF3030B6* CAUF3131B6* CAUF3636B6*	CAPF018B2* CAPF025B2* CAPF030B2* CAPF039B2* CAPF036B2* CAPF037B2* CAPF042B2* CAPF1824B6* CAPF3030B6* CAPF3131B6* CAPF3636B6*	CHPF036B2* CHPF042B2* CHPF048B2* CHPF2430B6* CHPF3636B6*
21	AMV80905CX** AMV81155CX**	2 1/2 - 4	CAUF042C2* CAUF048C2* CAUF049C2* CAUF060C2* CAUF061C2* CAUF1324C6* CAUF3030C6* CAUF3636C6* CAUF3642C6* CAUF4860C6*	CAPF036C2* CAPF042C2* CAPF1824C6* CAPF3030C6* CAPF3131C6* CAPF3636C6* CAPF3642C6*	CHPF048D2* CHPF060D2* CHPF3642C*

# PRODUCT DESIGN

## Thermostats:

The following Amana® brand Thermostats are suggested for use with the AMV8 Furnace Models:

Two-Stage Thermostat Description					
Thermostat	Programmable	Cool	Heat	Hard Wired	Battery Powered
1213411	No	2	2	Yes	Yes
1213407	Yes	1	2	Yes	Yes
1213406*	Yes	2	3	Yes	No

\* For use in dual-fuel applications with a heat pump in a fossil fuel application. It is not for use with the **AMV8** as a sole heating source.

## Filters:

Filters are required with this furnace and must be provided by the installer. The filters used must comply with UL900 or CAN/ULCS111 standards. Installing this furnace without filters will void the unit warranty.

### Upflow Filters

This furnace has provisions for the installation of return air filters at the side and/or bottom return. The furnace will accommodate the following filter sizes depending on cabinet size:

Side Return(s)		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in <sup>2</sup> )
All	16 x 25 x 1	400

Bottom Return		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in <sup>2</sup> )
17-1/2	14 x 25 x 1	288
21	16 x 25 x 1	480

Refer to Minimum Filter Area tables to determine filter area requirement. **NOTE:** Filters can also be installed elsewhere in the duct system such as a central return.

MINIMUM FILTER SIZES		
FURNACE INPUT	FILTER SIZE	TYPE
45M	160 in <sup>2</sup>	permanent
70M	241 in <sup>2</sup>	permanent
90M	320 in <sup>2</sup>	permanent
115M	400 in <sup>2</sup>	permanent
140M	370 in <sup>2</sup>	permanent
45M	320 in <sup>2</sup>	disposable
70M	483 in <sup>2</sup>	disposable
90M	640 in <sup>2</sup>	disposable
115M	800 in <sup>2</sup>	disposable
140M	738 in <sup>2</sup>	disposable

PERMANENT NOMINAL 600 F.M. FACE VELOCITY  
DISPOSABLE NOMINAL 300 F.M. FACE VELOCITY

# FURNACE SPECIFICATIONS

MODEL	AMV80704BX**	AMV80905CX**	AMV81155CX**
Btuh Input (US) High Fire (Natural Gas)	70,000	90,000	115,000
Output (US) High Fire (Natural Gas), BTUH	57,000	74,000	93,000
Output (US) High Fire (LP), BTUH	49,000	64,000	82,000
Btuh Input (US) Low Fire (Natural Gas)	52,500	67,500	86,000
Output (US) Low Fire (Natural Gas), BTUH	42,000	54,000	69,000
Output (US) Low Fire (LP), BTUH	42,000	54,000	69,000
A.F.U.E.	80%	80%	80%
Rated External Static (" w.c.)	.20 - .50	.20 - .50	.20 - .50
Temperature Rise (°F)	20 - 50	25 - 55	25 - 55
High Stage Pressure Switch Trip Point (" w.c.)	-0.45	-0.60	-0.55
Low Stage Pressure Switch Trip Point (" w.c.)	-0.30	-0.30	-0.30
Blower Wheel (D" x W")	10 x 8	10 x 10	10 x 10
Blower Horsepower	3/4	3/4	3/4
Blower Speeds	VARIABLE Refer to airflow charts on page 12-14.		
Max CFM @ 0.5 E.S.P.			
Power Supply	115 VAC / 60 HZ / 1 PH	115 VAC / 60 HZ / 1 PH	115 VAC / 60 HZ / 1 PH
Minimum Circuit Ampacity (MCA) <sup>(1)</sup>	11.7	11.7	11.7
Maximum Overcurrent Device (AMPS) <sup>(2)</sup>	15	15	15
Transformer (VA)	40	40	40
Primary Limit Setting (°F)	150	150	130
Auxiliary Limit Setting (°F)	150	150	150
Rollout Limit Setting (°F)	300	300	300
Gas Supply Pressure (Natural/Propane) (" w.c.)	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) High Stage (" w.c.)	3.5 / 10	3.5 / 10	3.5 / 10
Manifold Pressure (Natural/Propane) Low Stage ("w.c.)	1.6 / 6.3	1.6 / 6.3	1.6 / 6.3
Orifice Size (Natural/Propane)	43 / 55	43 / 55	43 / 55
Number of Burners	3	4	5
Vent Connector Diameter (inches) <sup>(4)</sup>	4	4	4
Shipping Weight (lbs.)	152	178	194

<sup>(1)</sup> Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

<sup>(2)</sup> Maximum Overcurrent Protection Device: May use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

## NOTES:

- These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane operation.
- For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
- The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method or in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.
- Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

# BLOWER PERFORMANCE SPECIFICATIONS

## High or Single-Stage Cooling Speeds

AMV80704BX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	540
	Nominal	600
	Plus (+) Tap	660
B	Minus (-) Tap	720
	Nominal	800
	Plus (+) Tap	880
C	Minus (-) Tap	900
	Nominal	1,100
	Plus (+) Tap	1,210
D	Minus (-) Tap	1,260
	Nominal	1,400
	Plus (+) Tap	1,540

AMV80905CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	720
	Nominal	800
	Plus (+) Tap	880
B	Minus (-) Tap	990
	Nominal	1,100
	Plus (+) Tap	1,210
C	Minus (-) Tap	1,260
	Nominal	1,400
	Plus (+) Tap	1,540
D	Minus (-) Tap	1,620
	Nominal	1,800
	Plus (+) Tap	1,980

AMV81155CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	720
	Nominal	800
	Plus (+) Tap	880
B	Minus (-) Tap	990
	Nominal	1,100
	Plus (+) Tap	1,210
C	Minus (-) Tap	1,260
	Nominal	1,400
	Plus (+) Tap	1,540
D	Minus (-) Tap	1,620
	Nominal	1,800
	Plus (+) Tap	1,980

## Low-Stage Cooling Speeds

AMV80704BX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	361**
	Nominal	390
	Plus (+) Tap	429
B	Minus (-) Tap	468
	Nominal	420
	Plus (+) Tap	572
C	Minus (-) Tap	644
	Nominal	715
	Plus (+) Tap	787
D	Minus (-) Tap	819
	Nominal	910
	Plus (+) Tap	1,001

AMV80905CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	563**
	Nominal	563**
	Plus (+) Tap	572
B	Minus (-) Tap	644
	Nominal	715
	Plus (+) Tap	787
C	Minus (-) Tap	819
	Nominal	910
	Plus (+) Tap	1,001
D	Minus (-) Tap	1,053
	Nominal	1,170
	Plus (+) Tap	1,287

AMV81155CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	563**
	Nominal	563**
	Plus (+) Tap	572
B	Minus (-) Tap	644
	Nominal	715
	Plus (+) Tap	787
C	Minus (-) Tap	819
	Nominal	910
	Plus (+) Tap	1,001
D	Minus (-) Tap	1,053
	Nominal	1,170
	Plus (+) Tap	1,287

### NOTES:

\* Motor CFM maximum

\*\* Motor CFM minimum

1. These charts are for furnaces installed at 0' - 4,500'. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
2. The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
3. Do not operate above .5" w.c. ESP in heating mode.
4. Propane gas installations will have a High Stage rise approximately 4° lower than shown in above table.

# BLOWER PERFORMANCE SPECIFICATIONS

## Cooling-Based Continuous Fan

AMV80704BX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	361**
	Nominal	361**
	Plus (+) Tap	370
B	Minus (-) Tap	403
	Nominal	448
	Plus (+) Tap	493
C	Minus (-) Tap	554
	Nominal	616
	Plus (+) Tap	678
D	Minus (-) Tap	706
	Nominal	784
	Plus (+) Tap	862

AMV80905CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	563**
	Nominal	563**
	Plus (+) Tap	563**
B	Minus (-) Tap	563**
	Nominal	616
	Plus (+) Tap	678
C	Minus (-) Tap	706
	Nominal	784
	Plus (+) Tap	862
D	Minus (-) Tap	9*07
	Nominal	1,008
	Plus (+) Tap	1,109

AMV81155CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	563**
	Nominal	563**
	Plus (+) Tap	563**
B	Minus (-) Tap	563**
	Nominal	616
	Plus (+) Tap	678
C	Minus (-) Tap	706
	Nominal	784
	Plus (+) Tap	862
D	Minus (-) Tap	907
	Nominal	1,008
	Plus (+) Tap	1,109

### NOTES:

\* Motor CFM maximum

\*\* Motor CFM minimum

1. These charts are for furnaces installed at 0' - 4,500'. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
2. The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
3. Do not operate above .5" w.c. ESP in heating mode.
4. Propane gas installations will have a High Stage rise approximately 4° lower than shown in above table.

# BLOWER PERFORMANCE SPECIFICATIONS

AMV80704BX** (Rise Range 20 - 50 °F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" w.c. ESP	High Stage CFM @ .1" to .5" w.c. ESP	Rise
A	Minus (-) Tap	810	1,077	48
	Nominal	900	1,197	43
	Plus (+) Tap	990	1,317	39
B	Minus (-) Tap	900	1,197	43
	Nominal	1,000	1,330	39
	Plus (+) Tap	1,100	1,463	35
C	Minus (-) Tap	990	1,317	39
	Nominal	1,100	1,463	35
	Plus (+) Tap	1,210	1,609	32
D	Minus (-) Tap	1,080	1,436	36
	Nominal	1,200	1,596	32
	Plus (+) Tap	1,320	1650*	29

AMV80905CX** (Rise Range 25 - 55 °F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" w.c. ESP	High Stage CFM @ .1" to .5" w.c. ESP	Rise
A	Minus (-) Tap	945	1,257	53
	Nominal	1,050	1,397	48
	Plus (+) Tap	1,155	1,536	43
B	Minus (-) Tap	1,035	1,377	48
	Nominal	1,150	1,530	43
	Plus (+) Tap	1,265	1,682	40
C	Minus (-) Tap	1,125	1,496	44
	Nominal	1,250	1,663	40
	Plus (+) Tap	1,375	1,829	36
D	Minus (-) Tap	1,215	1,616	41
	Nominal	1,350	1,796	37
	Plus (+) Tap	1,485	1,975	34

AMV81155CX** (Rise Range 25 - 55 °F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" w.c. ESP	High Stage CFM @ .1" to .5" w.c. ESP	Rise
A	Minus (-) Tap	1,170	1,556	55
	Nominal	1,300	1,729	49
	Plus (+) Tap	1,430	1,902	45
B	Minus (-) Tap	1,215	1,616	53
	Nominal	1,350	1,796	47
	Plus (+) Tap	1,485	1,975	43
C	Minus (-) Tap	1,260	1,676	51
	Nominal	1,400	1,862	46
	Plus (+) Tap	1,540	2000*	41
D	Minus (-) Tap	1,373	1,825	47
	Nominal	1,525	2000*	42
	Plus (+) Tap	1,678	2,000*	38

## NOTES:

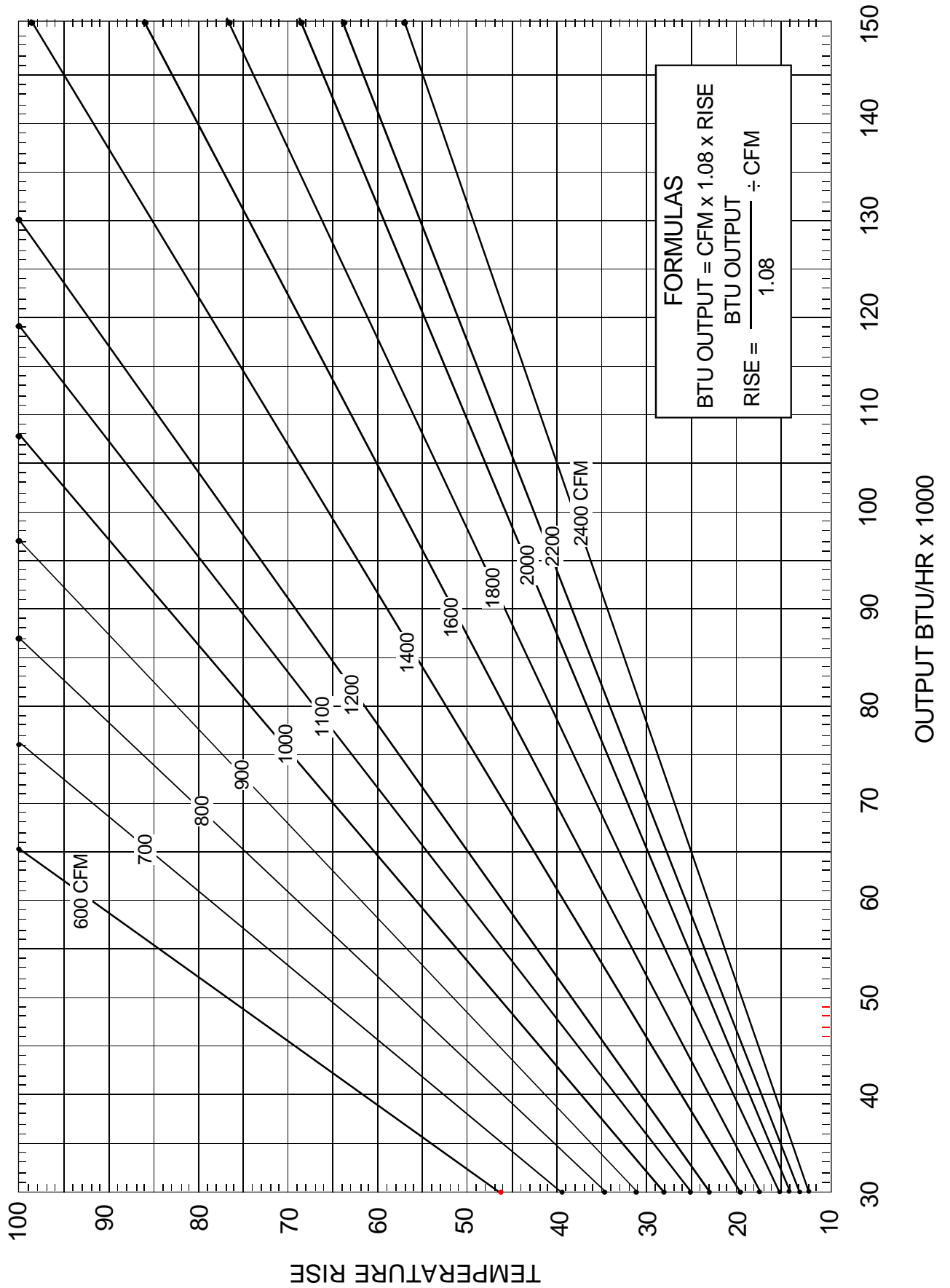
\* Motor CFM maximum

\*\* Motor CFM minimum

1. These charts are for furnaces installed at 0' - 4,500'. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at the CFM will be lower.
2. The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
3. Do not operate above .5" w.c. ESP in heating mode.
4. Propane gas installations will have High Stage rise approximately 4° lower than shown in above table.

# BLOWER PERFORMANCE SPECIFICATIONS

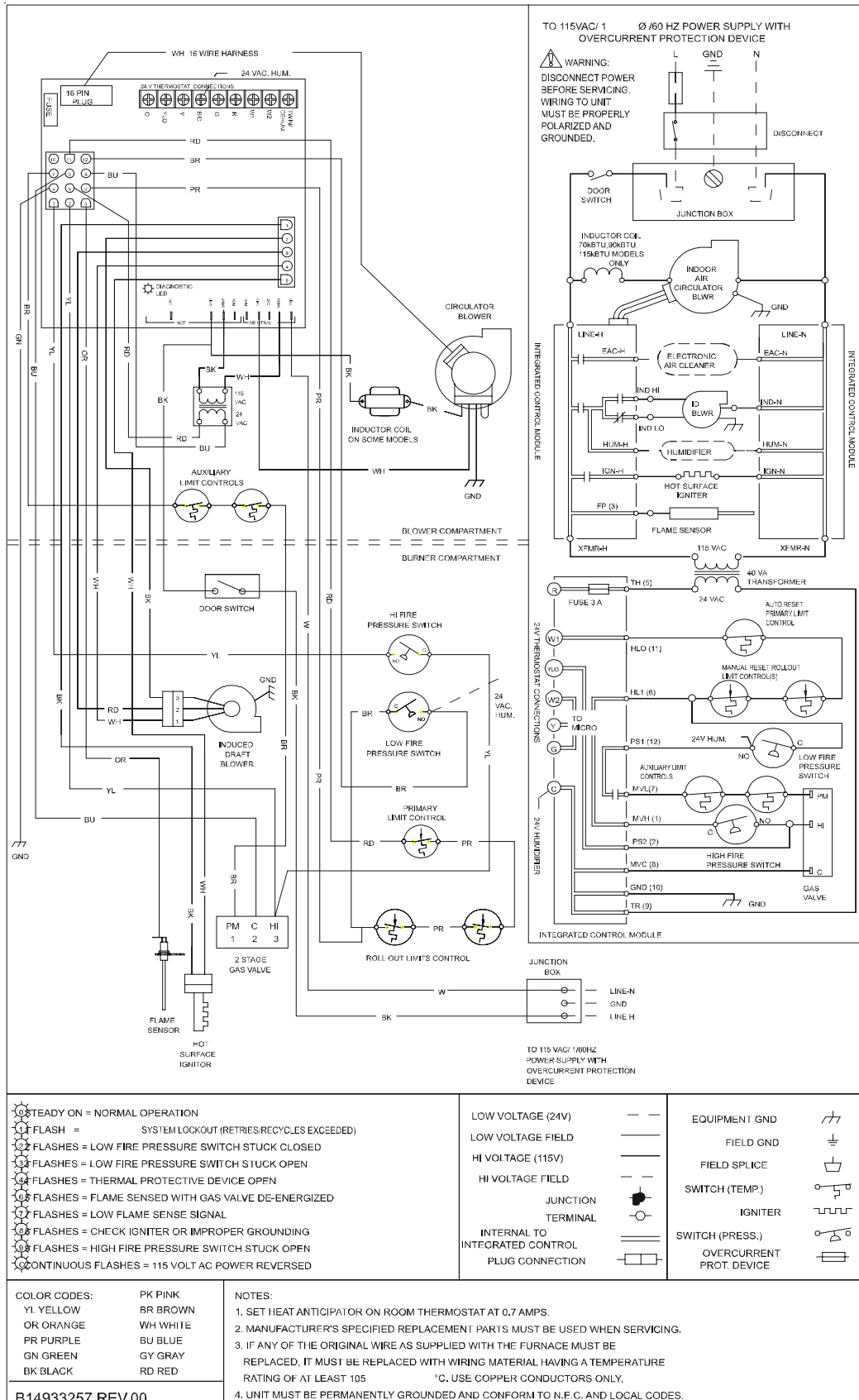
BTU OUTPUT vs TEMPERATURE RISE CHART





## WARNING

**HIGH VOLTAGE!**  
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

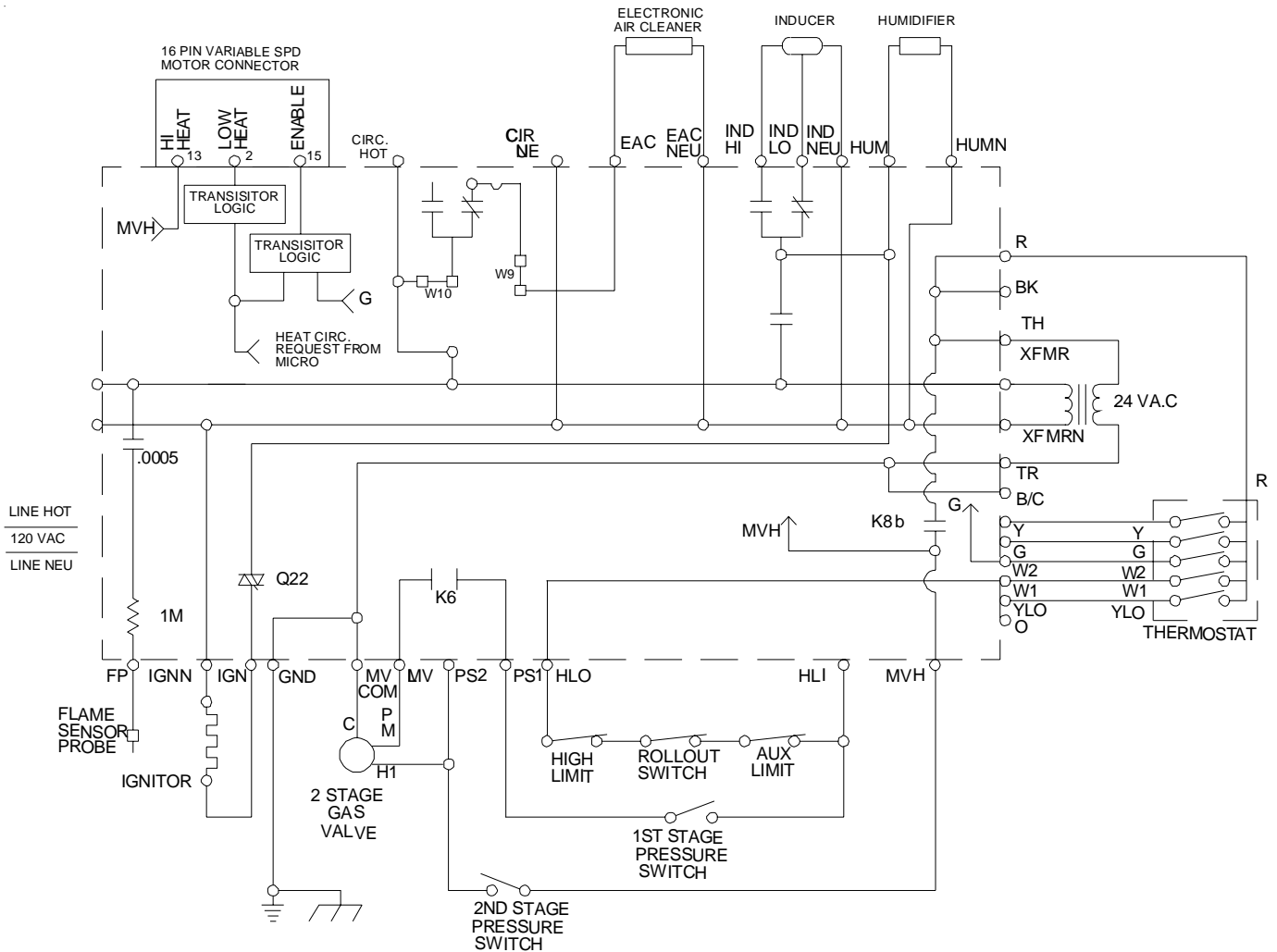


# SCHEMATICS



**WARNING**

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## TYPICAL SCHEMATIC AMV8 MODEL FURNACES

### WHITE-RODGERS 50V61-289 INTEGRATED IGNITION CONTROL

This schematic is for reference only. Not all wiring is as shown above, refer to the appropriate wiring diagram for the unit being serviced.